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RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/783,338

DATE: 09/25/2001
TIME: 09:58:12

Input Set : N:\Crf3\RULE60\09783338.txt
Output Set: N:\CRF3\09252001\I783338.raw

SEQUENCE LISTING

3 (1) GENERAL INFORMATION:
 5 (i) APPLICANT: Glazer, Peter M.
 6 Havre, Pamela A.
 8 (ii) TITLE OF INVENTION: Chemically Modified Oligonucleotide for
 9 Site-Directed Mutagenesis
 11 (iii) NUMBER OF SEQUENCES: 13
 13 (iv) CORRESPONDENCE ADDRESS:
 14 (A) ADDRESSEE: Patrea L. Pabst
 15 (B) STREET: 1100 Peachtree Street, Suite 2800
 16 (C) CITY: Atlanta
 17 (D) STATE: Georgia
 18 (E) COUNTRY: USA
 19 (F) ZIP: 30309-4530
 21 (v) COMPUTER READABLE FORM:
 22 (A) MEDIUM TYPE: Floppy disk
 23 (B) COMPUTER: IBM PC compatible
 24 (C) OPERATING SYSTEM: PC-DOS/MS-DOS
 25 (D) SOFTWARE: PatentIn Release #1.0, Version #1.25
 27 (vi) CURRENT APPLICATION DATA:
 C--> 28 (A) APPLICATION NUMBER: US/09/783,338
 C--> 29 (B) FILING DATE: 14-Feb-2001
 30 (C) CLASSIFICATION:
 32 (vii) PRIOR APPLICATION DATA:
 33 (A) APPLICATION NUMBER: US 08/083,088
 34 (B) FILING DATE: 25-JUN-1993
 38 (viii) ATTORNEY/AGENT INFORMATION:
 39 (A) NAME: Pabst, Patrea L.
 40 (B) REGISTRATION NUMBER: 31,284
 41 (C) REFERENCE/DOCKET NUMBER: YU109
 44 (ix) TELECOMMUNICATION INFORMATION:
 45 (A) TELEPHONE: (404)-815-6508
 46 (B) TELEFAX: (404)-815-6555
 48 (2) INFORMATION FOR SEQ ID NO: 1:
 50 (i) SEQUENCE CHARACTERISTICS:
 51 (A) LENGTH: 11 base pairs
 52 (B) TYPE: nucleic acid
 53 (C) STRANDEDNESS: single
 54 (D) TOPOLOGY: linear
 56 (ii) MOLECULE TYPE: DNA (genomic)
 58 (iii) HYPOTHETICAL: NO
 60 (iv) ANTI-SENSE: NO
 62 (ix) FEATURE:
 63 (A) NAME/KEY: misc_feature
 64 (B) LOCATION: 1..11
 65 (D) OTHER INFORMATION: /function= "N is
 66 4'-hydroxymethyl-4,5',8-trimethylpsoralen"

ENTERED

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68 (x) PUBLICATION INFORMATION:
69 (A) AUTHORS: Glazer, Peter M.
70 Havre, Pamela A.
71 (K) RELEVANT RESIDUES IN SEQ ID NO:1: FROM 1 TO 11
73 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
75 NAGGAAGGGG G 11
81 (2) INFORMATION FOR SEQ ID NO: 2:
83 (i) SEQUENCE CHARACTERISTICS:
84 (A) LENGTH: 10 base pairs
85 (B) TYPE: nucleic acid
86 (C) STRANDEDNESS: single
87 (D) TOPOLOGY: linear
89 (ii) MOLECULE TYPE: DNA (genomic)
91 (iii) HYPOTHETICAL: NO
93 (iv) ANTI-SENSE: NO
95 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
97 AGGAAGGGGG 10
99 (2) INFORMATION FOR SEQ ID NO: 3:
101 (i) SEQUENCE CHARACTERISTICS:
102 (A) LENGTH: 10 base pairs
103 (B) TYPE: nucleic acid
104 (C) STRANDEDNESS: single
105 (D) TOPOLOGY: linear
107 (ii) MOLECULE TYPE: DNA (genomic)
109 (iii) HYPOTHETICAL: NO
111 (iv) ANTI-SENSE: NO
113 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
115 GGGGGAAGGA 10
118 (2) INFORMATION FOR SEQ ID NO: 4:
120 (i) SEQUENCE CHARACTERISTICS:
121 (A) LENGTH: 8 base pairs
122 (B) TYPE: nucleic acid
123 (C) STRANDEDNESS: single
124 (D) TOPOLOGY: linear
126 (ii) MOLECULE TYPE: DNA (genomic)
128 (iii) HYPOTHETICAL: NO
130 (iv) ANTI-SENSE: NO
132 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
134 CCCCCTTC 8
136 (2) INFORMATION FOR SEQ ID NO: 5:
138 (i) SEQUENCE CHARACTERISTICS:
139 (A) LENGTH: 11 base pairs
140 (B) TYPE: nucleic acid
141 (C) STRANDEDNESS: single
142 (D) TOPOLOGY: linear
144 (ii) MOLECULE TYPE: DNA (genomic)
146 (iii) HYPOTHETICAL: NO
148 (iv) ANTI-SENSE: NO
150 (ix) FEATURE:

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151 (A) NAME/KEY: misc_feature
152 (B) LOCATION: 1..11
153 (D) OTHER INFORMATION: /function= "N is
154 4'-hydroxymethyl-4,5',8-trimethylpsoralen"
156 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
158 NGGGGGAAAGG A 11
160 (2) INFORMATION FOR SEQ ID NO: 6:
162 (i) SEQUENCE CHARACTERISTICS:
163 (A) LENGTH: 18 base pairs
164 (B) TYPE: nucleic acid
165 (C) STRANDEDNESS: single
166 (D) TOPOLOGY: linear
168 (ii) MOLECULE TYPE: DNA (genomic)
170 (iii) HYPOTHETICAL: NO
172 (iv) ANTI-SENSE: NO
174 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
176 GGTCGAATC CTTCCCCC 18
178 (2) INFORMATION FOR SEQ ID NO: 7:
180 (i) SEQUENCE CHARACTERISTICS:
181 (A) LENGTH: 18 base pairs
182 (B) TYPE: nucleic acid
183 (C) STRANDEDNESS: single
184 (D) TOPOLOGY: linear
186 (ii) MOLECULE TYPE: DNA (genomic)
188 (iii) HYPOTHETICAL: NO
190 (iv) ANTI-SENSE: NO
194 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:
196 GGTCGAAAC CTTCCCCC 18
198 (2) INFORMATION FOR SEQ ID NO: 8:
200 (i) SEQUENCE CHARACTERISTICS:
201 (A) LENGTH: 35 base pairs
202 (B) TYPE: nucleic acid
203 (C) STRANDEDNESS: single
204 (D) TOPOLOGY: linear
206 (ii) MOLECULE TYPE: DNA (genomic)
208 (iii) HYPOTHETICAL: NO
210 (iv) ANTI-SENSE: NO
212 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:
214 TGGTGGTGGG GGAAGGATTC GAACCTCGA AGTCG 35
216 (2) INFORMATION FOR SEQ ID NO: 9:
218 (i) SEQUENCE CHARACTERISTICS:
219 (A) LENGTH: 35 base pairs
220 (B) TYPE: nucleic acid
221 (C) STRANDEDNESS: single
222 (D) TOPOLOGY: linear
224 (ii) MOLECULE TYPE: DNA (genomic)
226 (iii) HYPOTHETICAL: NO
228 (iv) ANTI-SENSE: NO
232 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:

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Input Set : N:\Crf3\RULE60\09783338.txt
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234 CGACTTCGAA GGTTCGAATC CTTCCCCAC CACCA 35
 236 (2) INFORMATION FOR SEQ ID NO: 10:
 238 (i) SEQUENCE CHARACTERISTICS:
 239 (A) LENGTH: 121 base pairs
 240 (B) TYPE: nucleic acid
 241 (C) STRANDEDNESS: single
 242 (D) TOPOLOGY: linear
 244 (ii) MOLECULE TYPE: DNA (genomic)
 246 (iii) HYPOTHETICAL: NO
 248 (iv) ANTI-SENSE: NO
 250 (ix) FEATURE:
 251 (A) NAME/KEY: misc_feature
 252 (B) LOCATION: 1..60
 253 (D) OTHER INFORMATION: /function= "At positions 16 and 57,
 254 N is G or T."
 256 (ix) FEATURE:
 257 (A) NAME/KEY: misc_feature
 258 (B) LOCATION: 1..121
 259 (D) OTHER INFORMATION: /function= "At position 17, N is A,
 260 G or T."
 262 (ix) FEATURE:
 263 (A) NAME/KEY: misc_feature
 264 (B) LOCATION: 1..121
 265 (D) OTHER INFORMATION: /function= "At position 18, N is A,
 266 C or T."
 269 (ix) FEATURE:
 270 (A) NAME/KEY: misc_feature
 271 (B) LOCATION: 1..121
 272 (D) OTHER INFORMATION: /function= "At position 20, N is G
 273 or A."
 275 (ix) FEATURE:
 276 (A) NAME/KEY: misc_feature
 277 (B) LOCATION: 1..121
 278 (D) OTHER INFORMATION: /function= "At position 24, N is C
 279 or T."
 281 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:
 283 TGGTGGTGGG GGAAGNNNTN GAANCTTCGA AGTCGATGAC GGCAGATTAA GAGTCTNCTC 60
 285 CCTTTGGCCG CTCGGGAACC CCACCACAGG TAATGCTTT ACGGGGCGCA TCATATCAAA 120
 287 T 121
 289 (2) INFORMATION FOR SEQ ID NO: 11:
 291 (i) SEQUENCE CHARACTERISTICS:
 292 (A) LENGTH: 121 base pairs
 293 (B) TYPE: nucleic acid
 294 (C) STRANDEDNESS: single
 295 (D) TOPOLOGY: linear
 297 (ii) MOLECULE TYPE: DNA (genomic)
 299 (iii) HYPOTHETICAL: NO
 301 (iv) ANTI-SENSE: NO
 303 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:

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305 ATTTGATATG ATGCGCCCCG TAAAAGCATT ACCTGTGGTG GGGTCCCGA GCGCCAAAG 60
307 GGAGCAGACT CTAAATCTGC CGTCATCGAC TTCGAAGGTT CGAATCCTTC CCCCACCACC 120
309 A 121
311 (2) INFORMATION FOR SEQ ID NO: 12:
313 (i) SEQUENCE CHARACTERISTICS:
314 (A) LENGTH: 121 base pairs
315 (B) TYPE: nucleic acid
316 (C) STRANDEDNESS: single
317 (D) TOPOLOGY: linear
319 (ii) MOLECULE TYPE: DNA (genomic)
321 (iii) HYPOTHETICAL: NO
323 (iv) ANTI-SENSE: NO
326 (ix) FEATURE:
327 (A) NAME/KEY: misc_feature
328 (B) LOCATION: 1..121
329 (D) OTHER INFORMATION: /function= "At position 7, N is G
330 or T."
332 (ix) FEATURE:
333 (A) NAME/KEY: misc_feature
334 (B) LOCATION: 1..121
335 (D) OTHER INFORMATION: /function= "At positions 12, 20 and
336 117, N is C or G."
338 (ix) FEATURE:
339 (A) NAME/KEY: misc_feature
340 (B) LOCATION: 1..121
341 (D) OTHER INFORMATION: /function= "At positions 15, 16,
342 21, 29, 78, 83 and 108, N is A or G."
343 (ix) FEATURE:
344 (A) NAME/KEY: misc_feature
345 (B) LOCATION: 1..121
346 (D) OTHER INFORMATION: /function= "At positions 18, 49,
347 68, 69, and 107, N is C or T."
348 (ix) FEATURE:
349 (A) NAME/KEY: misc_feature
350 (B) LOCATION: 1..121
351 (D) OTHER INFORMATION: /function= "At position 114, N is
352 C, T or A."
354 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:
356 TGGTGGNGGG GNAANNANTN NAACCTTCNA AGTCGATGAC GGCAGATTNN GAGTCTNCTC 60
358 CCTTGGNNNG CTCGGGANCC CCNCCACAGG TAATGCTTT ACGGGGNNCA TCANNTNAAA 120
360 T 121
363 (2) INFORMATION FOR SEQ ID NO: 13:
365 (i) SEQUENCE CHARACTERISTICS:
366 (A) LENGTH: 121 base pairs
367 (B) TYPE: nucleic acid
368 (C) STRANDEDNESS: single
369 (D) TOPOLOGY: linear
371 (ii) MOLECULE TYPE: DNA (genomic)
373 (iii) HYPOTHETICAL: NO

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/783,338

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Input Set : N:\Crf3\RULE60\09783338.txt
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L:28 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]
L:29 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]